

CLIMATOLOGICAL DATA FOR JUNE, 1912.

DISTRICT No. 3, OHIO VALLEY.

Prof. FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

June, 1912, was unusually cool, and the distribution of precipitation was exceedingly irregular. In some parts of the district it was unusually dry, while in some other parts rainfall was normal and in still others there was an excess of moisture. High pressure dominated the weather conditions during practically the entire month, about the only exception being during the 15th-18th, when a rather deep barometric depression crossed the central valleys, the main center of action passing eastward over the Lake region. This depression was attended by general and more or less heavy rains over the entire district. These rains, while damaging in some sections, were exceedingly opportune and relieved conditions that were becoming generally droughty and which in some localities had begun to assume a serious aspect. Following the unusual rains of April and May the first two weeks of the month were rather dry, only scattered showers occurring, and those mostly early in the month. The ground had dried out rapidly and had begun to bake when the arrival of these rains restored the moisture, and retarded vegetation took on a new and rapid growth. During the first two weeks farm work, which had been so delayed, was rapidly advanced.

The month was especially marked by cool nights, also the absence of extremely high day temperatures. The most marked features of the month were: First. The unseasonably cool weather about the 8th, when frosts and freezing temperatures occurred in the Appalachian section as far south as Virginia and North Carolina, in the Licking River bottoms of Kentucky, and over much of Ohio and Indiana. Second. The severe storms which occurred about the 16th and were attended by destructive winds and lightning with excessive rainfall over a considerable area. These storms were especially severe over portions of Indiana, Ohio, and western Pennsylvania, several deaths and considerable destruction of property occurring in those States.

The last half of the month was showery and cool, but still there was ample sunshine, and vegetation made good progress, while during the last week weather conditions were generally favorable for harvesting and other farming operations.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.					
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.
New York.....	60.6	-2.0	89	30	1.48	-2.84	1.67	1.35	0.81	6
Pennsylvania.....	64.7	-2.9	96	29	4.48	-0.33	7.11	1.86	4.46	10
Maryland.....	61.4	-2.4	85	25	5.75	+1.16	5.92	5.52	1.85	16
West Virginia.....	67.3	-2.1	95	31	4.31	-0.32	9.21	1.93	3.50	11
Ohio.....	66.9	-2.7	92	28	3.27	-0.83	7.29	1.20	4.10	7
Indiana.....	68.6	-3.0	96	33	2.76	-1.65	5.19	1.01	3.40	8
Illinois.....	69.3	-3.4	93	39	3.90	+0.03	8.14	1.89	3.88	10
Kentucky.....	70.2	-3.9	95	38	3.48	-0.76	6.52	1.20	2.77	10
Tennessee.....	71.1	-2.6	95	38	4.34	-0.39	7.82	2.23	3.29	11
Alabama.....	72.8	-3.5	94	48	3.88	-0.48	6.57	2.32	1.86	11
Georgia.....	68.8	-2.7	89	42	7.28	+1.11	8.79	5.78	2.56	10
North Carolina.....	65.6	-2.4	91	34	5.59	+0.67	9.41	3.37	4.47	13
Virginia.....	66.2	-1.8	89	29	3.89	-1.14	6.51	1.85	2.25	10

TEMPERATURE.

The temperature averaged below normal in all parts of the district, the deficiency at the various stations ranging between 1° and 5°. In most sections the mean temperature for the month approached the record low average temperature for June for many years, while at quite a number of individual stations it was the local low record for June. Maximum temperatures for the month were unusually low, the highest temperature reported in the entire district being 96°, while in many parts of the district the temperature did not reach 90° during the entire month. Minimum temperatures also were uniformly low for June, and in quite a few places they were the lowest reached in June during the past decade or more.

The month opened with temperatures slightly above normal, but a change to cooler set in generally by the 4th, and the period 5th-11th was unseasonably cool, especially the 7th, 8th, and 9th, when daily mean temperatures ranged from 5° to 16° below normal and minimum temperatures ranging between 25° and 40° were registered. Killing frost occurred about the 8th in western New York, western Pennsylvania, and in Ohio, injuring tender vegetation in many localities. On the morning of the 8th a temperature of 28° was registered at Green Hill, Ohio, which is the record low temperature for the State of Ohio for June since 1883. Frosts occurred the same morning in practically all portions of that State except the extreme western counties. In the northeastern counties of Ohio the frost injured quite generally small fruits, gardens, and corn that was up, but in the central counties there was a slight injury only to crops in low and exposed places. Light frost was reported from many localities in the southern counties of Ohio, also in Indiana, extreme northern Kentucky, and the Appalachian section generally as far south as Virginia and North Carolina. In the short period from the 12th to 16th temperatures returned to more normal conditions, but from the 18th to the end of the month unseasonably cool weather was again the rule, the cold being especially emphasized from the 18th to 24th.

PRECIPITATION.

Precipitation over the district as a whole, while mostly sufficient, was exceedingly variable. There was a considerable deficiency over northern Kentucky, much of Indiana, and Ohio, and the extreme northeastern part of the district. In other sections there was a normal amount, with occasional localities where it was excessive. The distribution in the main was about as follows: Less than 2 inches over the sections mentioned above where it was deficient; 4 to 6 inches over western Kentucky, northern Tennessee and the upper drainage basin of the Tennessee River, and from 3 to 6 inches over the rest of the district, with scattered localities where there were 6 to 9 inches and over. The total rainfall of the month came mostly as local showers, consequently the extreme variability in its distribution.

Scattered showers occurred during the first week, the rainfall, however, being mostly light, except in a few localities. During the second week there was scarcely any rain until the very last day, when a general rain storm

set in which eventually overspread the entire district, giving generous and in some places excessive rains during the period 14th-18th. The last decade of the month was generally showery, giving ample moisture for all purposes, and yet not continuous enough to greatly interfere with harvesting.

Excessive 24-hour amounts occurred at numerous places and on various dates during the month, but particularly in Ohio and Indiana about the 16th and 17th. On the 16th, 3.25 inches fell at Salamonia, Ind., between 10 a. m. and 12 noon, while at a number of places in Ohio between 3 and 4 inches fell in 24 hours on that day. On the 25th, 4.47 inches fell at Rock House, N. C., in 24 hours, 3 inches of which fell in two hours. Table 2, Daily Precipitation for June, 1912, shows many excessive 24-hour rainfalls.

MISCELLANEOUS.

DAMAGE FROM STORMS AND LIGHTNING.

June 15-17.—Beginning during the night of the 15th and continuing through the 16th and much of the 17th a series of severe local storms passed over considerable areas in Kentucky, Illinois, Indiana, Ohio, and western Pennsylvania, resulting in much local damage from wind squalls, lightning, downpours of rain, and now and then hail. These storms were especially severe in the northern counties of western Kentucky, east central counties of Indiana, central and southern Ohio, and over southwestern Pennsylvania. The following are extracted from special reports by J. M. Kirk, observer, local office, Weather Bureau, Columbus, Ohio, and George S. Bliss, Section Director, Philadelphia, Pa.

SEVERE STORMS OF JUNE 16, 1912.

J. M. KIRK, Observer.

A number of unusually severe storms occurred in Ohio on Sunday, June 16. The storms were noteworthy for both the severity of the lightning and the destructive force of the winds, which in some instances showed almost tornadic violence. While observers at Delaware and Zanesville report that funnel-shaped clouds were seen, judging from the position of the fallen trees and other débris, it is believed that, with these possible exceptions, the winds were straight thunder squalls. There were at least four distinct storm periods during the day.

The first storm occurred at about 5 a. m. in the southwestern corner of the State. At Cincinnati a number of persons were injured, signs, trees, fences, chimneys, etc., were blown down, and windows were blown in and broken in various parts of the city. Considerable damage was done to river craft and the steeple of St. Peter's Church was tilted to a dangerous angle. An extreme velocity of 55 miles per hour from the southwest was recorded at the Weather Bureau office at 4.54 a. m. In the vicinity of Sevenmiles, Butler County, three barns were wrecked and much damage was done to trees and crops.

The storm passed over Dayton between 5 and 5.10 a. m. The path of greatest destruction was across the southern part of the city and varied in width from 500 to 1,000 feet. The first evidence of damage was in the part of the city called Edgemont, then there was a skip to the fair grounds, where a portion of the grand stand was blown away and several trees blown down; then another skip of one-half mile, to Wayne Avenue, where, within a radius of three blocks, two houses and one barn were wrecked, one barn blown into the street, a number of roofs blown off, much damage done to chimneys, windows, and trees, and three persons slightly injured. From that place another skip of 2 miles was made to the Smithville Pike, where a house and barn were destroyed.

Considerable damage was done by this storm in Springfield and vicinity also. A house was blown down and several buildings unroofed. Several miles north of Springfield a large barn was destroyed by lightning and six horses and 5 cows that were in the building were burned.

The second storm occurred in Muskingum County and passed over Zanesville at 6.40 a. m. The destruction to life and property here was much greater than in any other locality of the State. The storm moved from west to east and the path of greatest destruction was from 300 to 500 feet wide. A large number of buildings were wrecked or badly

damaged, hundreds of trees were blown down, and telephone, electric railway, and light service was completely demoralized for the rest of the day. During the progress of the storm the spire of St. Thomas's Church was wrecked and it crashed through the roof onto the heads of the large congregation, killing two and injuring a large number of others. The total number of people reported injured in the church and other parts of the city was 32.

The third disturbance occurred in the northwestern quarter of the State during the middle of the forenoon. It was accompanied by heavy rain and the electrical discharges seem to have been unusually severe. Much damage was done to the telephone systems by lightning.

The fourth storm occurred about noon and was felt in all of the middle counties of the State. While high wind was experienced throughout most of the State during this storm, winds of destructive force swept only small scattered areas. The paths were generally narrow and extended from west to east. A maximum velocity of 54 miles from the northwest was recorded at 11.30 a. m. at Dayton, but no serious damage seems to have been done by this storm until it reached the eastern end of Clark County. Here, from Orchard to Summerford, a distance of 4 miles, it swept a path about 60 rods in width, destroying three houses, six barns, and a number of orchards, and injuring several people.

Much damage was done at Plain City and Kile in northern Madison County and in various parts of Union County. At Plain City the Universalist church was demolished and a number of business houses and residences were unroofed and badly damaged. At Kile an elevator was blown over and the railroad station was moved from its foundation. In Delaware and Franklin Counties the damage was heavy. The storm passed over Delaware at 12.21 p. m. and Columbus at 12.25 p. m. At Delaware the path of greatest destruction was across the center of the city. A number of the business houses were unroofed and the contents of the buildings damaged by the rain. The roof of the Catholic school building was blown across the street where it damaged two residences. The damage throughout the county was severe and the total was variously estimated at from \$25,000 to \$50,000.

In Franklin County the villages of Dublin, Grove City, and Worthington suffered most severely. In Worthington one house was demolished and the owner was crushed to death in the ruins; several other buildings were unroofed and several people were injured. In Columbus, where an extreme velocity of 76 miles per hour was registered, the amount of damage done was comparatively light. The roof of a flour mill was blown off and a number of signs and trees were blown down. At the large Hartman stock farm, a few miles south of Columbus, one barn was completely demolished, another one was badly twisted, and a third, in which were 100 cattle, was unroofed. Three valuable horses and a number of cattle were injured. A large orchard was laid waste and much damage was done to fences.

In Licking County the greatest destruction occurred in the southwestern townships. At Wagram several barns, a church, and a house were blown down and a number of other buildings were unroofed. Minor losses were reported from all parts of the county.

Considerable damage to property was reported in Knox, Morrow, Athens, and Morgan Counties also. In northern Morgan County four barns and a house were wrecked.

The loss sustained by the telephone companies on this date was heavy throughout the State, but it was especially severe in the vicinity of Columbus. During the afternoon every toll line of the Central Union Telephone Co., going out of Columbus was out of commission. Their wires were down in every direction and about 500 of their poles were broken off. The loss to this company was nearly \$10,000. The Citizens Telephone Co., lost 165 poles.

The electric railway companies operating in the vicinity of Columbus suffered much loss also, both in damage to property and hindrance to traffic.

Mr. Bliss reports severe storms passed over the southern half of western Pennsylvania on the 16th and 17th, causing heavy property losses and killing at least two persons, besides a number of cattle and horses. On the 16th the newspapers reported a tornado in Washington and Green Counties, and from the general description of its operations there can be little doubt that it was a storm of that character. A little girl was killed by flying débris. The storms caused almost complete destruction over a well-defined path about 100 yards wide. During a severe thunderstorm on the 17th a man was killed by lightning near Mount Pleasant, in Westmoreland County, while six persons in other parts of the same county are known to have been badly burned or severely shocked by lightning on the same date. The heavy rainfall during these storms caused many washouts, delaying traffic and destroying growing crops.

TABLE 1.—Climatological data for June, 1912. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.			Departure from the normal.			Date.			Lowest.								
				Highst.	Date.	Lowst.	Date.	Lowst.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>New York.</i>																					
Allegany.	Cattaraugus.	1,441	6	60.8	-2.0	89	29	32	8†	46	1.67	-2.84	0.81	0	7	11	10	nw.	Charles E. Whitney.		
Bolivar.	Allegany.	1,800	18	60.5	-2.0	89	28	30	8†	49	1.43	-2.84	0.68	0	6	11	12	nw.	Dr. Charles F. Hoffman.		
Olean.	Cattaraugus.	1,402	4	—	—	—	—	—	—	—	1.35	—	0.72	0	5	—	—	w.	John W. Alles.		
<i>Pennsylvania.</i>																					
Aleppo.	Greene.	1,135	11	65.7	-1.5	87	28	33	8	43	4.59	+ 0.70	0.94	0	9	8	11	11	sw.	J. S. Hinerman.	
Baldwin.	Butler.	1,404	6	63.8	—	96	29	33	8	38	3.49	—	2.70	0	4	20	5	5	w.	S. H. Templeton.	
Beaver Dam.	Beaver.	674	18	—	—	—	—	—	—	—	6.29	+ 1.45	2.14	0	10	11	3	16	sw.	U. S. Engineer.	
Brookville.	Jefferson.	1,173	21	62.1	—	91	29	29	9	47	2.03	—	2.15	1.70	0	4	—	—	w.	H. C. Bartholomew.	
Clarion.	Clarion.	1,078	27	—	—	—	—	—	—	—	2.57	—	2.25	1.00	0	5	11	0	19	w.	J. A. Miller.
Claysville.	Washington.	1,127	8	67.0	—	91	29	30	8	47	4.61	—	1.65	0	10	10	15	5	w.	E. T. Buchanan.	
Confluence.	Somerset.	1,352	28	—	—	—	—	—	—	—	6.11	+ 1.87	2.00	0	12	14	4	12	w.	Grant Pyle.	
Franklin.	Venango.	955	38	64.2	-1.9	88	30	34	8	42	2.44	-2.32	0.79	0	6	22	0	8	w.	F. E. Dixon.	
Freeport.	Armstrong.	772	39	—	—	—	—	—	—	—	4.07	-0.17	2.37	0	8	15	5	10	—	Mrs. Anna R. Burtner.	
Greensburg.	Greene.	768	23	—	—	—	—	—	—	—	4.72	-0.28	1.40	0	12	13	4	13	sw.	James G. Cramer.	
Greenville.	Mercer.	950	16	63.0	-3.7	89	29	30	8	45	3.53	-0.74	1.75	0	5	18	8	4	nw.	A. M. Orr.	
Indiana.	Indiana.	1,350	15	65.8	-1.2	90	29	34	8	41	4.23	-0.59	3.17	0	7	15	9	6	w.	R. W. Wehrle.	
Johnstown.	Cambria.	1,184	24	67.0	-2.5	88	1	37	8†	44	6.69	+ 1.57	4.46	0	11	11	15	4	sw.	E. C. Lorentz.	
Lock No. 4.	Washington.	718	26	—	—	—	—	—	—	—	2.99	-1.03	1.08	0	6	10	6	14	s.	R. T. McGowan.	
Lycopsis.	Westmoreland.	1,420	20	64.3	-4.2	80	23	39	8	38	6.48	-2.22	2.86	0	10	—	—	—	nw.	Murray Forbes.	
Pittsburgh.	Allegheny.	842	42	67.5	-3.6	87	29	41	8	32	5.67	+ 1.78	3.19	0	11	9	9	12	nw.	U. S. Weather Bureau.	
Saegerstown.	Crawford.	1,116	21	61.9	-3.4	86	28	31	8	41	4.75	+ 0.32	1.83	0	6	8	15	7	nw.	J. G. Apple.	
Somerset.	Somerset.	2,250	56	62.5	-3.1	87	1	30	8	47	6.00	+ 1.05	2.65	0	10	5	19	6	sw.	W. M. Schrock.	
Uniontown.	Fayette.	999	24	67.1*	-3.2	88	29†	37	8	38*	4.22	-0.53	1.45	0	12	2	12	2	w.	Wm. Hunt.	
Warren.	Warren.	1,137	23	61.5	-3.3	89	29	33	8	43	1.86	-2.37	0.80	0	6	17	2	11	nw.	Anna Simpson.	
<i>Maryland.</i>																					
Deer Park.	Garrett.	2,457	18	60.8	-2.4	85	2	25	8	50	5.52	+ 0.40	1.13	0	14	—	—	—	s.	S. P. Specht.	
Grantsville.	do.	2,351	18	62.4	-1.7	86	1†	30	8	45	5.92	+ 1.85	1.35	0	15	—	—	—	w.	J. S. Miller.	
Oakland.	do.	2,461	12	60.9	-3.2	83	1†	27	8	48	5.82	+ 1.23	1.39	0	19	7	17	6	w.	R. E. Weber.	
<i>West Virginia.</i>																					
Bancroft.	Putnam.	574	10	72.2	—	94	1†	42	9	43	2.16	-2.94	0.62	0	11	10	0	20	ne.	R. E. Dent.	
Beeckley.	Raleigh.	2,440	12	64.5	-3.1	87	17	36	9	38	5.81	+ 1.92	1.78	0	7	12	12	6	w.	John A. Ewart.	
Bens Run.	Pleasants.	622	10	68.4	-2.0	89	29	40	9	40	3.11	-1.72	0.93	0	8	18	9	3	—	J. D. Riggs.	
Bluefield.	Mercer.	2,563	17	66.8	-2.1	86	2	41	10	36	7.49	+ 2.25	1.25	0	15	11	9	10	—	Norfolk & Western Ry.	
Buckhannon.	Upshur.	1,472	21	66.6	-2.5	88	2†	34	9	44	4.20	-0.92	1.00	0	8	16	8	6	—	H. A. Darnall.	
Cairo.	Ritchie.	667	10	67.8	-2.8	91	2	37	8†	41	3.50	—	0	5	19	3	7	w.	Van A. Zevely.		
Central Station.	Doddridge.	900	11	67.0*	-2.9	88	28†	36	8†	43*	6.45	+ 2.31	0	14	5	18	7	sw.	G. W. Sherwood.		
Charleston.	Kanawha.	598	24	70.8	-1.5	91	16	43	9	35	3.09	-1.66	1.04	0	11	12	16	2	w.	R. C. Hewes.	
Creston.	Wirt.	612	11	67.9	-2.8	88	1†	35	9	42	2.79	-1.76	1.05	0	12	9	8	13	sw.	J. M. Reed.	
Cuba.	Jackson.	544	10	67.0	-1.8	89	29	37	8†	40	1.94	-2.37	0.65	0	9	9	19	2	w.	C. T. Perry.	
Doane.	Wayne.	6	—	—	—	—	—	—	—	—	2.86	—	0.55	0	7	17	6	7	w.	L. A. Smith.	
Elkhorn.	McDowell.	1,933	19	67.0	-1.6	87	1†	38	9	39	9.21	+ 4.05	2.05	0	14	16	10	4	w.	J. J. Lincoln.	
Elkins.	Randolph.	1,940	13	64.3	-2.2	87	2	33	8	42	4.93	-0.11	1.00	0	15	6	10	14	w.	U. S. Weather Bureau.	
Fairmont.	Marion.	879	18	69.0	—	91	29	39	8†	43	3.79	-0.98	1.11	0	12	19	4	7	s.	F. F. Hall.	
Glenville.	Gilmer.	738	22	69.8	-0.7	93	28	37	8	44	2.73	-1.88	1.40	0	10	21	1	8	sw.	Joe N. Craddock.	
Grafton.	Taylor.	985	18	68.7	0	90	2†	36	8	47	3.45	-1.29	0.72	0	11	13	7	10	w.	Joseph Gerken.	
Green Sulphur Springs.	Summers.	1,600	16	66.4	-2.2	87	2†	36	9	42	4.18	-0.26	1.63	0	13	12	11	7	w.	Arthur George.	
Hinton.	do.	1,400	21	69.6	-1.1	92	2	41	9	39	5.60	+ 1.33	1.40	0	17	20	4	6	sw.	J. B. Lavender, C. E.	
Holcomb.	Nicholas.	0	64.7d	—	—	86	30d	34	10	41d	5.37	—	1.23	0	10	14	11	5	—	R. E. Ferguson.	
Huntington.	Cabell.	510	17	71.0	-1.6	90	28	47	9	36	2.32	-2.18	0.54	0	12	14	5	11	w.	L. H. Hutchinson.	
Lewisburg.	Greenbrier.	2,200	11	65.9	-2.0	86	2†	37	9	40	4.21	-0.18	1.25	0	11	9	9	1	—	Geo. T. Araghrite.	
Logan.	Logan.	665	10	72.4	+ 0.5	90	16†	48	11	35	3.61	-2.09	0.89	0	14	14	6	10	w.	Dr. J. E. McDonald.	
Lost Creek.	Harrison.	1,033	15	64.6	-3.5	86	26†	32	9	44	4.17	-0.10	1.00	0	10	9	17	5	w.	Allen Smith.	
Madison.	Boone.	704	8	69.4	—	91	17	43	6	42	4.93	—	1.23	0	8	7	10	1	—	S. E. Bradley.	
Mannington.	Marion.	967	11	65.9	-2.5	87	29	34	8†	43	4.21	+ 0.18	1.25	0	11	13	9	8	w.	Jas. A. Morgan.	
Marlinton.	Pocahontas.	2,189	17	62.4	-3.9	86	1	32	8†	50	3.45	-1.61	1.95	0	11	9	9	1	s.	C. J. McCarty.	
Morgantown.	Monongalia.	1,250	36	67.6	-1.4	87	12	38	9	35	3.42	-1.32	0.86	0	12	12	9	9	s.	Horace Atwood.	
Moundsville.	Marshall.	640	10	68.2	-1.5	91	28†	36	8	43	2.93	-1.37	0.58	0	8	13	5	12	w.	M. L. Brown.	
New Cumberland.	Hancock.	987	14	66.6	-1.7	90	29	33	8	44	3.95	-0.82	2.40	0	6	14	5	11	s.	Frank S. Evans.	
New Martinsville.	Wetzel.	634	18	69.5	-2.1	92	26†	39	8	42	5.17	+ 1.33	2.20	0	9	14	15	1	—	Wm. Ankrum.	
Nuttallburg.	Fayette.	2,252	18	63.2d	-4.9	84	14†	34	8d	32d	5.17	+ 0.82	0.63	0	12	13b	13d	2b	—	Miss Donna Tully.	
Parkersburg.	Wood.	638	24	69.5	-2.1	89	28	42	9	36	6.48	+ 1.83	3.23	0	14	9	13	8	n.	U. S. Weather Bureau.	
Parsons.	Tucker.	1,662	12	64.0	-2.6	86	2†	31	9	47	8.98	+ 3.27	2.05	0	15	13	6	11	w.	J. W. Swisher.	
Philippi.	Barbour.	1,192	18	67.8	-0.4	90	29	33	8†	47	3.63	-1.1									

TABLE 1.—*Climatological data for June, 1912. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Observers.		
				Mean.	Highest,	Date.	Lowest,	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of overcast days.	Prevailing wind direction.				
Ohio—Continued.																					
Cambridge.	Guernsey.	803	20	65.0	-3.3	87	26†	32	7	41	3.28	-0.62	1.42	0	5	8	22	0	Samuel Mehaffey.		
Camp Dennison.	Hamilton.	570	19	68.3	-1.5	90	14	40	8	39	2.76	-0.42	0.90	0	14	16	12	2	Henry F. Pinkvoss.		
Canal Dover.	Tuscarawas.	884	19	66.5	-1.8	90	29	32	8	43	4.06	+0.23	1.75	0	7	8	18	4	Ed. S. Shingluff.		
Canton.	Stark.	1,089	29	65.9	-2.7	90	29	33	8	37	3.99	-0.25	3.02	0	7	19	4	7	Carl H. Meyer.		
Cardington.	Morrow.	1,010	17	66.2	-1.1	89	29	30	8	40	5.25	+1.36	2.90	0	7	20	0	10	J. W. Shaw.		
Chillicothe.	Ross.	630	9								1.20		0.50	0	5				Marion Mackey.		
Cincinnati.	Hamilton.	628	41	70.7	-3.0	89	28	46	8	28	2.16	-1.82	0.57	0	13	8	13	9	U. S. Weather Bureau.		
Circleville.	Pickaway.	694	24	69.4	-1.3	92	28†	36	8	39	1.51	-2.53	0.55	0	8	14	10	6	Dr. H. R. Clarke.		
Clarington.	Monroe.	600	9	66.2				89	26	35	4.74		1.25	0	11	10	0	20	Col. S. Tschappat.		
Columbus.	Franklin.	918	34	68.2	-2.8	89	29	43	8	28	1.48	-2.01	0.76	0	8	11	14	5	U. S. Weather Bureau.		
Coshocton.	Coshocton.	770	3								4.50		2.23	0	7				Mrs. Ada Jeffries.		
Dayton (1).	Montgomery.	889		68.5	-3.6	88	28	42	8	31	2.15	-1.81	1.03	0	10	8	10	12	U. S. Weather Bureau.		
Dayton (2).	do.	790	31	68.9	-3.3	91	26	37	8	40	2.64	-1.40	0.93	0	11				Mrs. Edith E. L. Boyer.		
Delaware.	Delaware.	896	15	66.8	-2.1	91	29	33	8	42	5.47	+1.77	4.10	0	6	16	9	5	DeWitt H. Leas.		
Demos.	Belmont.	1,325	24	66.8	-2.9	90	28	34	8	40	2.74	-1.58	0.79	0	8	20	8	2	J. T. Dysart.		
Dennison.	Tuscarawas.	846	2	67.4				91	29	32	8	46	4.03		2.83	0	6	18	11	1	Water Supply Co.
Frankfort.	Ross.	745	20	69.7	-1.0	90	12†	35	8	47	1.40	-1.75	0.75	0	4	18	3	9	O. A. Cory.		
Gallipolis.	Gallia.										7.29		3.30	0	7				Samuel F. Neal.		
Garretttsville.	Portage.	1,005	28	63.9	-2.4	88	29	30	8	44	2.19	-1.50	1.65	0	5	15	7	8	S. M. Luther.		
Granville.	Licking.	960	30	67.9	-2.2	89	29	34	8	41	2.72	-1.25	0.90	0	8	20	1	9	Dr. L. E. Davis.		
Gratiot.	do.	1,000	23	66.9	-3.4	87	29	35	8	37	1.65	-2.56	0.60	0	5	10	18	2	W. B. Longstreth.		
Green.	Adams.	500	19	68.6	-3.4	89	2	41	8	39	3.48	-0.68	0.88	0	7	14	11	5	W. F. Kenyon.		
Green Hill.	Columbiana.	1,135	19	62.6	-3.6	86	29	28	8	39	4.23	+0.29	2.39	0	7	14	16	0	Jos. E. Bentley.		
Greenville.	Darke.	1,060	26	68.1	-1.3	88	28†	40	8	33	2.47	-1.86	1.01	0	9	16	7	7	Geo. A. Katzenberger.		
Hamilton.	Butler.	601									2.49		0.85	0	5				Earl W. Stout.		
Haydenville.	Hocking.	700		68.2		92	17	33	8	44	4.24		1.30	0	7	18	6	6	H. W. Stiers.		
Hillsboro.	Highland.	1,063	33	68.9	-2.5	89	29	38	21	39	2.18	-1.23	0.74	0	8	12	15	3	Carey H. Roush.		
Ironon.	Lawrence.	575	29	70.5 ^b	-0.7	91 ^b	1†	40 ^b	9	41 ^b	2.94	-1.59	0.59	0	12	16	10	4	James Bull.		
Kenton.	Hardin.	1,015	20	64.2	-5.5	88	26†	31	8	44	3.93	-0.56	2.55	0	6	18	6	6	N. S. Martin.		
Killbuck.	Holmes.	1,087	19	65.5	-3.0	88	26	33	8	38	4.69	+1.25	2.50	0	7	21	5	4	Lloyd C. Schonauer.		
Lancaster.	Fairfield.	898	17	67.2	-1.9	88	29	36	8	35	2.64	-2.00	0.58	0	8	12	14	4	R. L. Renshaw.		
McConnelsville.	Morgan.	710	28	67.1	-3.0	89	29	35	8	40	3.61	-0.71	1.45	0	8	8	15	7	C. H. Morris.		
Marietta.	Washington.	637	93	69.7	-0.5	92	26	39	8	40	3.04	-1.19	0.76	0	12	7	13	10	Prof. T. D. Biscoe.		
Marion.	Marion.	980	34	68.0	-1.7	91	26†	35	8	41	5.28	+1.21	3.35	0	9	16	10	4	Dr. E. H. Raffensperger.		
Mifordton.	Knox.	1,200	20	65.5	-2.3	89	26	33	8	41	4.23	+0.64	2.53	0	4	19	7	4	L. H. Burgess.		
Milligan.	Perry.	875	19	66.0	-3.5	88	29	31	8	44	3.45	-0.81	1.25	0	8	14	14	2	V. C. Eveland.		
Millport.	Columbiana.	1,145	19	63.8	-2.9	86	26†	30	8	44	4.29	+0.49	2.18	0	7	11	12	7	G. F. Copeland.		
Nelle.	Coshocton.	850	12	64.4	-4.5	89	29	32	8	44	3.30	-0.50	2.00	0	5	16	12	2	Ethel L. Gammertsfelder.		
New Alexandria.	Jefferson.	1,050	27	65.6	-3.8	91	29	36	8	36	3.50	-0.66	1.15	0	5	22	4	4	Mrs. Mary K. Pennell.		
New Berlin.	Stark.	1,100	19	64.4	-3.4	90	26	30	8	40	4.33	+0.73	3.98	0	6	22	4	4	Clayton Holl.		
New Waterford.	Columbiana.	1,053	17	64.8	-2.5	89	26	31	8	42	5.65	+0.98	0	5	15	12	3	Sam. C. Scott.			
N. O. University.	Franklin.	757	29	66.8	-2.9	89	29	36	8	41	1.68	-1.85	0.83	0	6	14	10	6	Prof. H. C. Lord.		
Pataskala.	Licking.	1,015	20	66.4	-3.1	88	26†	36	8	35	2.51	-1.62	1.01	0	8	10	18	2	J. N. Ridenour.		
Peebles.	Adams.	645	1	67.6		91	28	33	8	44	2.99		0.87	0	12	12	11	7	Ora O. Smalley.		
Philo.	Muskingum.	1,018	17	66.6	-3.9	87	29	35	8	34	5.44	+1.68	2.73	0	8	12	14	4	L. C. Bureckholter.		
Piqua.	Miami.	847	2								3.00		1.40	0	6	11	9	10	Harry L. Roberts.		
Plattensburg.	Clark.	1,130	19	66.3	-3.1	88	28	37	8	35	3.30	-0.56	1.55	0	5	14	12	4	F. E. Stewart.		
Portsmouth.	Scioto.	527	81	70.0	-2.6	89	28†	42	9	37	2.49	-1.61	0.95	0	6	11	0	19	Dr. H. A. Schirrmann.		
Prospect.	Marion.	909	2															Neil J. Gast.			
Shenandoah.	Richland.	1,100	20	63.7	-3.4	87	28†	33	8	36	4.15	+0.11	1.96	0	4	9	20	1	T. B. Arnett.		
Sidney.	Shelby.	695	29	67.4	-3.0	91	26	35	8	41	4.49	+0.69	2.85	0	6	16	7	7	Hamline B. Blake.		
Somerset.	Perry.	1,080	13	69.0	-1.7	91	29	39	8	33	1.90	-3.31	0.82	0	9	21	9	0	Miss M. W. C. Sheridan.		
Springfield.	Clark.	980	18	66.4	-3.0	89	29	30	8	45 ^b	3.08	-1.50	1.61	0	10	12	15	3	W. A. Webster.		
Summerfield.	Noble.	1,187	6	66.4 ^a		90 ^a	29	30 ^a	8	45 ^b	3.90		0.84	0	9	9	18	3	H. R. McClinton.		
Syracuse.	Meigs.	583	1															Irving R. Karr.			
Thurman.	Gallia.	696	19	68.5	-3.4	86	12†	42	8†	34	2.37	-1.94	0.85	0	5	10	9	11	D. D. Thomas.		
Urbana.	Champaign.	1,031	47	64.7	-1.2	90	28†	35	8	38	2.33	-2.03	1.30	0	6	16	14	0	Prof. J. H. Williams.		
Warren.	Trumbull.	900	23	66.2	-1.2	90	28	32	8	42	1.99	-1.54	1.27	0	4	18	4	8	M. D. McCorkle.		
Waverly.	Pike.	540	29	68.1	-4.2	87	12†	38	8	37	3.19	-0.80	0.01	0	11	10	6	14	Dr. Peru Hutt.		
Waynesville.	Warren.	700	27	66.8 ^b	-3.0	85	26†	39 ^b	8†	27 ^b	2.12	-2.91	0.65	0	5	13	11	6	Chas. Michener.		
Wooster.	Wayne.	1,030	33	64.6	-3.2	88	29	31	8	38	2.21	-1.99	1.12	0	4	18	4	8	Experiment Station.		
Youngstown.	Mahoning.	846	19								3.47	+0.47	2.35	0	7	19	3	7	G. R. Patton.		
Zanesville.	Muskingum.	700	25								1.32	+2.58	0.44	0	8	20	1	9	S. G. Sprague.		
Indiana.																					
Anderson.	Madison.	892	17	68.0	-2.1	90	29	39	8	41	1.22	-2.57	0.48	0	7	20	5	5	W. H. Stanton.		
Attica.	Fountain.	522	2								4.45		1.94	0	10				Robt. E. Ray.		
Bloomington.	Monroe.	744	17	68.6	-3.2	90	26	43	8	34	2.96	-0.81	1.59	0	8	18	5	7	Earl E. Ramsey.		
Blufont.	Wells.	535	17	68.2	-0.1	92	28†	35	8	44	2.49	-1.61	1.15	0	7	17	13	0	Tom R. Johnston.		
Butlerville.	Jennings.	767	27	68.6	-3.7	90	13	42	8	33	3.21	-1.20	1.21	0	9	18	8	4	C. F. Hole.		
Cambridge City.	Wayne.	941	21	66.8	-2.6	92	29	34	8	39	1.95	-2.36	0.65	0	7	19	2	9	Heze Barnett.		
Columbus.	Bartholomew.	632	29	68.2	-3.6	90	26	37	8	44	3.20	-0.35	0.85	0	10	17	4	19	John A. Perry.		
Connersville.	Fayette.	769	30	69.6	-1.2	93	29	39	8	42	1.69	-2.39	0.73	0	3	21	7	2	H. T. Swindler.		
Crawfordsville.	Montgomery.	780	2	69.0	-2.2	93	26	38	8	40	3.02		0.75	0	8	11	14	5	P. H. Burns.		
Delphi.	Carroll.	668	27	68.4	-2.2	92	26	38	8	37	3.51	-0.81	1.21	0	10	16	2	12	D. A. Higginbotham.		
Eminence.	Morgan.	782	6	67.4		87	13	40	8	40	3.82		1.32	0	5	15	13	2	E. E. Kelso, M. D.		
Evansville.	Vanderburg.	386	36	71.0	-4.3	87	12	51	8	24	3.36	-0.81	1.91	0	9	18	3	3	U. S. Weather Bureau		

TABLE 1.—Climatological data for June, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.							
				Departure from the normal.			Greatest daily range.			Departure from the normal.			Greatest in 24 hours.															
				Mean.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Total.	Total snowfall, unmeted.																
<i>Indiana—Continued.</i>																												
Mauzy.	Rush.	980	32	67.1	— 3.0	90	26	36	8	36	1.01	— 3.28	0.36	0	7	12	11	7	s.	Elwood Kirkwood.								
Monticello.	White.	674	2								5.19	— 1.33	0	10	16	10	4	s.	J. E. Loughry.									
Moore Hill.	Dearborn.	980	11	68.1	— 2.2	87	28†	41	8	31	2.34	— 0.93	1.16	0	10	17	5	8	sw.	W. S. Bigney.								
Mount Vernon.	Posey.	410	26	69.6	— 5.7	87	12†	49	8	30	4.31	+ 0.58	1.02	0	10	18	8	6	ne.	Guy B. Green.								
Nashville.	Brown.	67.8									1.17		0.45	0	6	9	14	7	w.	W. C. Goble.								
Paoli.	Orange.	611	15	70.0	— 2.2	91	13	42	9	39	1.72	— 2.74	0.46	0	9	11	16	3	sw.	James A. Gillum.								
Princeton.	Gibson.	481	30	69.4	— 4.7	91	13	48	8	39	2.65	+ 0.60	2.53	0	6	20	3	7	sw.	Albert Mills.								
Richmond.	Wayne.	972	27	65.8	— 3.6	88	28	35	8	41	1.68	— 2.44	1.20	0	7	9	16	5		Walter Vossler.								
Rochester.	Fulton.	775	7	69.4	— 2.3	90	26†	44	8	32	4.75		1.80	0	9	14	10	6	e.	G. P. Keith.								
Rockville.	Parke.	722	26	68.7	— 2.3	95	13	46	8	36	2.46	— 1.74	0.72	0	6	23	2	5		C. A. Lee.								
Rome.	Perry.	370	9	72.2	— 2.2	95	13	47	8	39	1.17		1.27	0	9	16	7	7	sw.	Adam Anspach.								
Salamonie.	Jay.	7	66.3	— 3.8	90	29	33	8	38	4.11		3.25	0	9	16	7	7	w.	S. A. Armstrong.									
Salem.	Washington.	717	19	68.0	— 3.8	92	13	42	9	41	1.73	— 2.21	0.57	0	7	7	20	3		Emmet S. Allen.								
Scottsburg.	Scott.	570	18	72.8	— 1.3	92	12†	47	9	35	3.19	— 0.78	1.43	0	10	3	26	1	sw.	Frank H. Park.								
Seymour.	Jackson.	610	25	70.0	— 2.8	92	13	41	8	39	2.51		0.67	0	8	12	14	4	s.	J. Robt. Blair.								
Shelbyville.	Shelby.	768	8	68.9	— 2.2	90	26†	36	8	36	3.18		1.05	0	9	9	14	5		Edgar G. Hodson.								
Shoals.	Martin.	523	5																		Rev. G. Halleck Rowe.							
Terre Haute.	Vigo.	498	22	69.8	— 3.8	90	13	44	10	38	3.92	— 0.24	1.48	0	8	14	11	5		Prof. R. G. Gillum.								
Veedersburg.	Fountain.	612	13	68.4	— 1.9	92	26	40	8	37	2.07	— 2.53	0.77	0	7	22	4	4	s.	L. A. Culver, jr.								
Vevay.	Switzerland.	525	31																		Miss Frederica Boerner.							
Vincennes.	Knox.	431	20	70.8	— 3.5	92	13	49	8	33	1.95	— 2.77	0.50	0	6	19	5	6	sw.	Garrett V. List.								
Washington.	Daviess.	484	16	69.5	— 3.1	87	12	48	8	37	1.89	— 2.56	0.59	0	6	13	10	7	s.	Charles C. Feagans.								
Whitestown.	Boone.	529	4	68.4	— 2.2	89	29	45	8†	32	2.06		0.56	0	10	7	22	1	sw.	Clyde O. Langner.								
Winona Lake.	Kosciusko.	865	5	68.8	— 2.3	92	26	37	8	37	4.17		1.18	0	10	1	29	0	w.	Rev. Albert A. Young.								
Worthington.	Greene.	526	30	70.0	— 2.3	89	12†	44	8	34	3.15	— 1.24	1.09	0	9	11	13	6	sw.	D. W. Solliday.								
<i>Illinois.</i>																												
Albion.	Edwards.	531	21	71.1	— 3.2	93	12	47	8	37	5.36	+ 1.13	2.65	0	7	18	8	4	s.	B. F. Michels.								
Carmi.	White.	399	1																		Daniel Berry.							
Casey.	Clark.	645	9																		William Chenoweth.							
Charleston.	Coles.	720	27	68.6	— 4.0	89	12†	42	8	34	3.07	— 1.12	1.05	0	9	6	21	3	e.	Jacob B. Daisy.								
Danville.	Vermilion.	604	11	68.8	— 3.5	91	26†	41	8	34	3.61	+ 0.76	1.23	0	11	19	3	8	sw.	J. J. Lemon.								
Equality.	Gallatin.	421	14	71.4	— 2.7	90	12	45	8	34	2.46	+ 0.77	2.15	0	13	17	11	2	s.	Dr. L. W. Gordon.								
Fairfield.	Wayne.	495	19	70.0	— 3.4	89	12	46	8	34	8.05	+ 4.05	3.48	0	12	12	15	3	ne.	George A. Tromly.								
Flora.	Clay.	495	26	69.6	— 2.9	89	28	45	8†	30	3.25	— 1.25	0.96	0	9	22	5	3	se.	Joseph S. Peak.								
Golconda.	Pope.	500	34	71.6*	— 3.4	90	12†	54*	8†	34	5.23	+ 1.17	3.26	0	8	7	12	11	sw.	Dr. D. Lawrence.								
Hooperston.	Vermilion.	715	10	68.0	— 2.2	80	26†	42	8	32	3.56	+ 1.04	1.20	0	11	16	10	4	sw.	S. F. Hoskinson.								
McLeansboro.	Hamilton.	462	29	70.4	— 3.8	92	12	46	8	36	4.68	+ 0.70	2.43	0	10	17	9	4	sw.	Prof. W. C. Fairweather.								
Metropolis.	Massac.	346	1																		John Barfield.							
Montrose.	Effingham.	599	2	68.0	— 2.7	88	27†	42	8	33	3.72		1.76	0	11	10	17	3	sw.	J. C. Spitzer.								
Mount Carmel.	Wabash.	424	11	69.4	— 2.7	88	12†	48	8	32	5.02	+ 0.92	3.34	0	10	21	5	4	s.	Mrs. H. M. Phillips.								
New Burnside.	Johnson.	613	17	68.4	— 6.1	86	17	44	8	32	4.70	+ 1.05	2.28	0	10	10	11	9	s.	Thomas H. McCabe.								
Newton.	Jasper.	484	1																		J. M. Hicks.							
Olney.	Richland.	486	25	70.3	— 4.2	90	12†	45	8	33	2.32	— 1.45	0.81	0	10	8	13	9	sw.	Victor E. Phillips.								
Palestine.	Crawford.	500	30	69.6	— 3.4	89	26	45	8†	34	3.62	— 0.38	0.86	0	12	18	8	4	s.	Duane Shaw.								
Paris.	Edgar.	600	19	68.7	— 3.7	92	30	40	8	36	2.46	— 1.19	1.10	0	7	12	15	3	ne.	H. P. Twyman.								
Philo.	Champaign.	700	28	67.8	— 2.9	90	27	41	8	34	2.67	— 1.00	1.16	0	7	14	10	6	se.	H. A. Burr.								
Rantoul.	do.	768	21	68.2	— 3.0	92	26	39	8	32	2.47	— 1.54	0.73	0	10	17	6	7	se.	William Breiner.								
Rileyville.	Sainte.	400	15																		W. H. Thornberry.							
Shawneetown.	Gallatin.	307	2																		Mrs. Mary O. Spivey.							
Tuscola.	Douglas.	644	19																		E. W. Lester.							
Urbana.	Champaign.	725	10	67.4	— 1.8	88	26	41	8	29	1.89	— 0.62	0.92	0	9	6	19	5	sw.	Prof. J. G. Mosier.								
<i>Kentucky.</i>																												
Alpha.	Clinton.	18	68.9	— 4.7	84	13	47	8†	29	6.52	+ 1.71	2.00	0	11	11	6	13	s.	W. W. Hicks.									
Anchorage.	Jefferson.	700	11	68.8	— 2.9	92	13	43	9	37	3.96	+ 0.20	1.67	0	9	15	10	5	e.	C. E. Barrett.								
Bardstown.	Nelson.	637	15	72.0	— 2.6	92	13	47	9	40	3.56	— 0.79	1.07	0	8	10	11	9	se.	T. S. Talbott.								
Beattyville.	Lee.	650	8	68.7	— 2.2	89	1†	38	9	44	4.02	— 0.86	1.36	0	10	10	9	11	e.	G. W. Cann.								
Beaver Dam.	Ohio.	441	9	70.9	— 2.1	91	13	48	9	38	2.05	— 1.48	2.05	0	8	10	9	11	s.	W. T. Austin.								
Berea.	Madison.	1,070	11	71.0	— 1.0	93	1†	41	9	39	4.78	— 0.48	1.50	0	11	16	8	6	sw.	C. F. Rumold.								
Blandville.	Ballard.	445	31	70.0	— 4.9	85	16	53	8	25	4.34	— 0.48	2.25	0	11	4	14	12	ne.	E. W. Horr.								
Bowling Green.	Warren.	500	23	71.5	— 4.4	94	2†	46	9†	42	4.63	+ 0.92	1.65	0	7	9	7	14	s.	Mrs. L. G. Causey.								
Burnside.	Pulaski.	773	21																		G. M. Estes.							
Calhoun.	McLean.	397	9	71.2	— 3.9	89	13	49	8	33	5.82	+ 2.30	2.77	0	12	5	20	5	e.	W. A. Taylor.								
Catlettsburg.	Boyd.	544	23																		Mrs. Mertie M. Bruns.							
Earlington.	Hopkins.	370	22	71.4	— 4.2	94	13	48	8	41	5.21	+ 1.68	2.00	0	13	17	6	7	sw.	Brick Southworth.								
Edmonton.	Metcalfe.	600	21																									

TABLE 1.—*Climatological data for June, 1912. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Tennessee.</i>																				
Ashwood.....	Maury.....	725	33	71.8	- 3.1	90	5†	50	9†	34	2.62	- 1.56	0.69	0	8	8	9	13	s.	Mrs. Joseph W. Fleming.
Benton.....	Polk.....	880	27	72.0	- 1.9	92	5	50	9†	37	7.36	+ 1.64	1.85	0	15	9	17	4	n.	George L. Williams.
Bird's Bridge.....	Greene.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	13	6	11	w.	David B. George.
Bluff City.....	Sullivan.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	18	7	5	nw.	John W. Fisher.
Byrdstown.....	Pickett.....	1,026	19	72.2	- 0.8	90	13	50	8†	35	4.48	- 0.57	1.37	0	9	6	14	10	s.	John Lacy.
Carthage.....	Smith.....	500	28	73.0	- 1.9	91	5†	52	9†	37	3.72	- 1.11	1.04	0	12	18	3	9	se.	Earl C. Pickering.
Cedar Hill.....	Robertson.....	625	12	72.2	- 3.7	93	1†	48	8	38	4.79	+ 0.46	0.46	0	14	11	16	3	nw.	J. Frank Ruffin.
Celina.....	Clay.....	494	9	.....	.....	.....	.....	.....	.....	.....	4.40	.....	1.17	0	10	11	8	11	.....	Charles M. Anderson.
Center Point.....	Chester.....	400	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	14	12	4	.....	Halbert H. Bailey.
Charleston.....	Bradley.....	709	15	.....	.....	.....	.....	.....	.....	.....	5.78	- 0.27	1.24	0	14	13	5	12	s.	John T. Weeks.
Chattanooga.....	Hamilton.....	808	33	72.2	- 3.2	89	1	55	11	29	5.75	+ 1.44	1.26	0	17	6	13	11	sw.	U. S. Weather Bureau.
Clarksville.....	Montgomery.....	500	49	72.1	- 1.5	91	5	51	11	36	4.19	+ 0.04	1.32	0	11	14	11	5	s.	Prof. James A. Lyon.
Clinton.....	Anderson.....	800	24	.....	.....	.....	.....	.....	.....	.....	3.66	- 1.44	1.47	0	10	17	2	11	ne.	Hugh Evans.
Crossville.....	Cumberland.....	1,895	8	68.0	.....	86	5	45	8†	34	5.41	.....	1.48	0	14	14	12	4	.....	J. E. Converse.
Dandridge.....	Jefferson.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.76	.....	1.70	0	9	16	7	7	w.	James E. Swann.
Decatur.....	Meigs.....	850	16	72.0	- 2.5	93	17	47	10†	35	5.62	+ 0.04	1.92	0	14	12	14	4	sw.	J. Worth Lillard.
Dickson.....	Dickson.....	800	16	70.4	- 3.5	89	13	48	10	33	5.64	+ 1.54	1.54	0	8	11	13	6	s.	Nathan R. Sugg.
Dover.....	Stewart.....	500	17	71.7	- 3.3	90	12†	50	11	37	3.18	- 0.83	1.10	0	7	11	10	9	s.	Asa M. Tippit.
Dunlap.....	Sequatchie.....	726	3	72.0	.....	91	1†	46	10	42	7.82	.....	3.28	0	13	10	17	3	.....	S. Bradford Boyd.
Elizabethhton.....	Carter.....	1,575	22	.....	.....	.....	.....	.....	.....	.....	3.80	- 2.39	0.85	0	10	14	3	13	e.	Charles Boyd.
Erasmus.....	Cumberland.....	1,850	15	66.8	- 2.1	87	1	39	8†	42	3.74	- 1.85	0.97	0	13	8	17	5	se.	Mrs. Sarah E. Ashley.
Florence.....	Rutherford.....	560	30	71.8	- 3.3	89	16	51	9	29	4.59	+ 0.65	1.42	0	9	14	12	4	s.	Erastus P. Bell.
Franklin.....	Williamson.....	648	23	71.6	- 2.9	88	15	52	10†	30	4.68	+ 0.34	1.30	0	11	14	2	14	.....	Young M. Rizer.
Hall's Hill.....	Rutherford.....	10	.....	.....	.....	.....	.....	.....	.....	.....	7.31	.....	1.50	0	12	14	1	15	s.	Edward F. Wright.
Harriman.....	Roane.....	841	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	10	17	3	nw.	.....
Hohenwald.....	Lewis.....	983	26	71.0	- 2.4	89	17	47	20	36	2.44	- 2.61	0.66	0	12	10	17	3	.....	.....
Iron City.....	Lawrence.....	600	15	71.4	- 3.1	91	17†	47	11	36	4.08	- 1.00	1.10	0	13	6	23	1	nw.	Mrs. Mary Lutzelman.
Jefferson City.....	Jefferson.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2.43	.....	0.86	0	14	22	7	1	w.	Capt. H. Paul Seavy.
Johnson City.....	Washington.....	1,620	1	71.0	- 0.6	92	13	42	9	42	3.70	- 0.98	1.10	0	13	22	7	1	.....	Calvin C. Maddox.
Johnsonville.....	Humphreys.....	364	16	72.0	- 3.1	90	1†	48	11	37	5.21	+ 1.11	1.57	0	9	8	13	9	s.	Ward Crosby.
Kingston.....	Roane.....	21	.....	.....	.....	.....	.....	.....	.....	.....	3.39	- 1.13	1.19	0	12	19	3	8	n.	Miss Sallie B. Mathews.
Knoxville.....	Knox.....	977	41	72.4	- 1.0	90	17	53	9	30	2.44	- 1.73	0.56	0	14	8	13	9	ne.	Henry Crumbliss.
Lebanon.....	Wilson.....	522	3	72.0	.....	89	1†	44	8	35	4.76	.....	1.30	0	12	11	2	17	s.	U. S. Weather Bureau.
Lewisburg.....	Marshall.....	727	17	71.8	- 3.8	92	18	46	8	37	3.67	- 0.51	1.57	0	12	10	13	7	se.	H. Logan Fields.
Livingston.....	Overton.....	1,045	9	.....	.....	.....	.....	.....	.....	.....	2.60	- 2.16	1.41	0	10	15	7	8	e.	Dr. Robert D. Crutcher.
Loudon.....	Loudon.....	816	9	.....	.....	.....	.....	.....	.....	.....	3.40	- 1.21	0.77	0	10	10	18	2	s.	Robert W. Clark.
Lynville.....	Giles.....	770	24	71.3	- 3.5	88	17†	51	25	28	3.11	.....	0.98	0	7	20	2	8	s.	Col. James H. Burrow.
McGhee.....	Monroe.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Alice L. Headrick.
McMinnville.....	Warren.....	1,011	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mountain City.....	Blount.....	2,486	15	65.8	- 1.2	84	13	38	9†	41	2.23	- 3.51	0.44	0	10	14	15	1	.....	.....
Nashville.....	Johnson.....	1,620	12	72.2	- 4.1	89	1	55	9	27	5.66	+ 1.29	2.11	0	12	9	8	13	ne.	Edward E. Barry.
Newport.....	Davidson.....	654	41	72.2	- 4.1	89	1	55	9	27	5.66	+ 1.33	2.15	0	11	10	7	13	s.	U. S. Weather Bureau.
New River.....	Cooke.....	1,280	22	71.2	- 3.0	90	17	50	8†	30	5.60	+ 1.33	2.15	0	10	23	0	7	.....	Dr. Charles T. Burnett.
Palmetto.....	Scott.....	1,215	5	.....	.....	.....	.....	.....	.....	.....	4.87	.....	1.03	0	10	23	0	7	.....	Burl W. Buttram.
Perryville.....	Bedford.....	770	19	70.6	- 4.4	89	7†	48	9	30	3.70	- 0.66	1.17	0	13	9	16	5	sw.	Mrs. Ross Woods.
Pinewood.....	Decatur.....	387	15	72.2	.....	90	1†	49	10	35	5.67	+ 1.30	1.83	0	11	11	5	14	.....	Oliver C. Kirksey.
Rogersville.....	Hickman.....	5	71.8	.....	.....	.....	.....	.....	.....	.....	3.39	.....	0.01	0	11	8	16	6	.....	Miss Carrie Cash.
Rogersville.....	Hawkins.....	1,150	27	70.8	- 1.0	87	1†	49	8†	34	5.08	+ 1.13	1.26	0	13	12	14	4	w.	Fred Beal.
Rugby.....	Morgan.....	1,410	24	68.6	- 2.7	90	5	42	11†	43	4.27	- 0.35	1.50	0	12	6	10	14	w.	Samuel G. Wilson.
Savannah.....	Hardin.....	442	28	73.6	- 2.0	92	29	51	9	40	4.99	+ 0.32	1.60	0	10	14	4	12	s.	W. H. Carrington.
Sevierville.....	Sevier.....	6	71.1	.....	.....	.....	.....	.....	.....	.....	2.45	.....	1.03	0	17	0	10	20	sw.	Herbert O. Eckel.
Sewanee.....	Franklin.....	2,000	16	69.6	- 2.0	85	2	51	7	25	6.45	+ 1.46	0.70	0	9	10	8	12	s.	University of the South.
Sparta.....	White.....	920	6	72.0	.....	89	1†	49	9	37	3.40	.....	0.70	0	12	9	6	12	.....	Ernest H. Hull.
Springville.....	Henry.....	377	9	70.9	- 2.8	89	5	45	11	37	4.02	+ 1.12	1.90	0	12	16	11	3	s.	Hudnall A. Boden.
Tazewell.....	Clairborne.....	1,350	15	69.2	.....	89	17	42	8†	39	2.51	- 2.00	0.44	0	12	14	8	8	ne.	J. Caloway Carr.
Tullahoma.....	Coffee.....	1,075	24	70.6	- 2.2	89	18	49	11	35	3.15	- 1.24	0.99	0	8	7	18	5	s.	Reuben T. Moore.
Walling.....	White.....	909	9	.....	.....	.....	.....	.....	.....	.....	2.45	.....	1.01	0	5	11	9	10	e.	John K. Roberts.
Waynesboro.....	Wayne.....	753	26	71.2	- 2.5	90	5†	46	8	35	3.41	- 0.97	0.80	0	13	5	18	7	s.	Harry C. Boyd.
Wildersville.....	Henderson.....	400	15	72.4	- 1.9	90	5†	53	22	36	3.54	- 0.77	0.86	0	6	12	7	11	s.	William R. Wilson.
Worsham.....	Sumner.....	550	11	.....	.....	.....	.....	.....	.....	.....	3.95	- 0.51	0.64	0	12	14	6	10	w.	James G. Elizer.
Yukon.....	Lincoln.....	850	15	70.6	- 4.8	90	18	50	8	30	4.42	+ 0.11	1.26	0	11	6	20	4	sc.	William P. Watson.
<i>Georgia.</i>																				
Diamond.....	Gilmer.....	2,020	20	68.4 ^b	- 3.1	86	1†	45	11	39	8.79	+ 2.62	2.56	0	10	12	11	7	.....	R. A. Kimzey.
Mineral Bluff.....	Fannin.....	1,571	.....	69.2	.....	89	1†	42	11†</											

TABLE 1.—*Climatological data for June, 1912. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.						
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.						
<i>North Carolina—Con.</i>																				
Jefferson.....	Ashe.....	2,800	5	65.6		86	13†	37	9	40	3.40		0.86	0	14	6	4	20	w.	Prof. E. J. Johnson.
Marshall.....	Madison.....	1,646	10																	M. L. Church.
Murphy.....	Cherokee.....	1,614	36																	James C. Midgett.
Rock House.....	Macon.....	3,100	20	64.0	— 5.0	82	17	45	9†	24	9.41	+ 1.36	4.47	0	15	9	14	7	ne.	Barry C. Hawkins.
Transon.....	Ashe.....	2,600		64.2		85	17	34	9	43	3.37		0.90	0	8	19	8	3	e.	S. M. Transou.
Waynesville.....	Haywood.....	2,756	18	66.4	— 1.5	88	17	38	11	42	6.26	+ 1.96	1.83	0	17	18	5	7	sw.	Judge J. C. L. Gudger.
<i>Virginia.</i>																				
Burke's Garden.....	Tazewell.....	3,250	17	61.4	— 2.6	80	5†	29	9	49	3.88	— 1.05	0.97	0	9	7	10	13	w.	C. H. Greever.
Elk Knob.....	Lee.....	3,243	9	70.4		87	1	47	8	25	3.40		0.86	0	13	11	10	9	sw.	Henry Nicoll.
Ivanhoe**.....	Wythe.....	2,028	8	66.6		84	2†	46	9	26	4.44		1.75	0	14	16	11	3	w.	Miss Alice G. Jewett.
Max Meadows.....	do.....	2,028	16	68.6	+ 0.9	86	2	34	9	46	4.29	— 0.39	1.43	0	9	22	6	2	sw.	James M. Graham.
Mendota.....	Washington.....	1,350	3								4.24		1.12	0	9					Frank M. Barker.
Mountain Lake.....	Giles.....	4,348	2	61.8		80	1†	37	8	35	1.85		0.45	0	10	24	5	1	n.	H. E. Dorland.
Radford.....	Montgomery.....	1,773	3								4.68		1.18	0	8					Arthur Roberts.
Speers Ferry.....	Scott.....	1,221	16								3.23	— 1.98	0.89	0	10					Mrs. L. E. Venable.
Wytheville.....	Wythe.....	2,293	19	66.2	— 2.5	85	17	39	9	40	6.51	+ 2.40	2.25	0	16	18	12	2	w.	U. S. Weather Bureau.

*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for June, 1912. District No. 3, Ohio Valley.*

Stations.	Watershed.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<i>New York.</i>																															
Allegany.....	Allegheny.....	.81	T.01	1202	.54	T.	1.67
Bolivar.....	do.....	.68	1238	1.43		
Olean [I].....	do.....	72	T.	1329	.15	1.85		
<i>Pennsylvania.</i>																															
Alleppo.....	Ohio.....	.7760	T.72	.9413780530	.30	4.59	
Baldwin.....	Allegheny.....	.22	T.01	T.	1342	.27	.15	T.	3.49		
Beaver Dam [I].....	Ohio.....	.10	T.01	T.	0751	.24	.12	.12	T.	T.	6.29		
Beaver Falls [I].....	do.....	.09	.....	.....	.....	T.	.....	T.	.....	.....	.....	.....	.....	43	3.60	.84	.10	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.61
Brookville.....	Allegheny.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	1.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.03
California.....	Monongahela.....	.5062	T.75	1.251225	4.24		
Clarion [I].....	Allegheny.....	.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	1.00	.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.57
Claysville.....	Ohio.....	.25	T.02	56	1.63	T.	.05107704	4.61		
Confluence [I].....	Allegheny.....	.24	.....	.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.45	.60	.14	T.	.....	.24	.09	.10	.....	T.	.....	.....	.....	6.11
Coraopolis [I].....	Ohio.....	.13	.....	T.	.....	.03	.....	.....	.....	.....	.....	.....	.....	56	1.10	1.04	.01	T.	T.	.....	.35	.....	.....	T.	.....	.....	.....	3.79
Davis Island Dam [I].....	do.....	.04	.....	T.	.....	.01	.....	.....	.....	.....	.....	.....	.....	49	1.24	1.00	.01	T.	.....	.02	.....	.....	.....	T.	.....	.....	.....	3.87
Derry Station.....	Allegheny.....	.43	.....	.....	.....	.33	.....	.....	.....	.....	.....	.....	.....	36	3.86	.....	.....	.13	.80	.....	.....	.....	.....	.....	.....	.....	.....	4.48
Ellwood City [I].....	Ohio.....	.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43	1.81	.46	.09	.02	.....	.03	.....	.....	.....	.....	.....	.....	.....	4.51
Franklin [I].....	Allegheny.....	.37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	.79	.77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.44
Freeport [I].....	do.....	.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	2.37	.72	T.	T.	.....	.12	.....	.01	.....	.....	.....	.....	.....	2.47
Greensboro [I].....	Monongahela.....	.10	.....	T.	.....	.10	.....	.....	.....	.....	.....	.....	.....	78	.70	.58	.22	.....	.22	.....	.44	.10	.04	.....	.....	.....	1.40	4.72
Greensburg.....	Youghiogheny.....	.34	T.05	53	3.35	T.	T.31	T.	T.02	1.05	.05	.68		
Greenville.....	Ohio.....	.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75	1.75	T.	.....	.....	.13	.....	.....	.....	.....	.....	.....	.....	.....	3.53
Grove City.....	do.....	.20	.....	.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	61	2.95	T.	T.	.....	.39	.....	.....	.....	.....	.....	.....	.....	.....	4.55
Harris Island Dam [I].....	Allegheny.....	.07	T.	39	1.82	.33	.01	T.	T.24	T.	1.18	.07	.80		
Indiana.....	do.....	.12	.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	61	3.17	.05	.....	.....	.12	.....	.06	.....	.....	.....	.....	.....	.....	4.23
Irwin.....	Monongahela.....	.15	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52	3.10	.....	.....	.....	.17	.....	.21	.....	.....	.....	.....	.....	.....	4.76
Johnstown.....	Allegheny.....	.73	.....	.....	.36	.....	.....	.....	.....	.....	.....	.....	.....	50	4.46	.08	T.	.10	.....	.04	.....	.29	T.	T.	.....	.....	6.69	
Lock No. 4 [I].....	Monongahela.....	.25	.....	.15	.02	T.	.....	.....	.....	.....	.....	.....	.....	45	.75	1.08	.05	.....	.03	.....	.05	.....	.08	T.	T.	.....	.....	2.99
Lycippus.....	Allegheny.....	.55	.....	.....	.42	.....	.....	.....	.....	.....	.....	.....	.....	44	2.66	.03	.....	.....	.22	T.	.20	.....	.07	.....	.....	.....	.....	6.48
Parkers Landing [I].....	do.....	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24	.95	1.34	.....	.....	.04	.....	.06	.....	.....	.....	.....	.....	.....	2.34
Pittsburgh.....	Ohio.....	.09	.....	T.	.....	.01	.....	.....	.....	.....	.....	.....	.....	43	3.19	.05	T.	T.	.02	.17	.....	T.	T.	.....	.....	.....	1.57	
Saegerstown.....	Allegheny.....	1.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	1.02	.....	.....	.32	.....	.06	.....	.....	.....	.....	.....	.....	4.75	
Saltsburg [I].....	do.....	.16	.....	.02	T.	.....	.....	.....	.....	.....	.....	.....	.....	26	1.76	.98	.02	.....	.12	.....	.20	.....	.04	.....	.....	.....	.....	4.00
Sharon [I].....	Ohio.....	.07	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	2.58	.18	T.	T.	.19	.01	.14	.....	.....	.....	.....	.....	3.38	
Somerset.....	Youghiogheny.....	.48	.....	.....	.26	.....	.....	.....	.....	.....	.....	.....	.....	68	2.65	.....	.48	.11	.16	.41	.....	.....	.....	.....	.....	.....	.....	5.00
Springdale [I].....	Allegheny.....	.05	.....	.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	2.45	1.25	.02	.....	.16	.....	.01	.....	.....	.....	.....	.....	5.92	
Uniontown.....	Monongahela.....	.16	.....	.10	.....	.12	.....	.....	.....	.....	.....	.....	.....	73	1.45	.....	.32	T.	.11	.13	.05	T.	.02	.....	T.	.11	.92	
Warren.....	Allegheny.....	.80	.....	.20	.....	.10	.....	.....	.....	.....	.....	.....	.....	14	.42	.....	.....	.....	.20	.....	.....	.....	.....	.....	.....	.....	1.86	
West Newton [I].....	Youghiogheny.....	.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47	1.20	.78	.04	.....	.15	.....	.10	T.	.14	.....	.....	.....	4.81	
<i>Maryland.</i>																															
Deer Park.....	Youghiogheny.....	.29	.....	.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	76	1.13	.04	.25	.22	.04	.29	.19	.....	.80	.30	.....	19	.77	5.52
Grantsville.....	do.....	.05	.....	.20	.....	.65	.....	.....	.....	.....	.....	.....	.....	100	1.35	.10	.30	.08	T.	.03	.09	.03	.80	T.	.42	.14	.68	5.92
Oakland.....	do.....	.32	.0223	.01	30	91	1.3933	.19	.03	.23	.25	.11	.01	.06	.03	.03	.21	1.16	5.82	
<i>West Virginia.</i>																															
Bancroft [I].....	G. Kanawha.....	.31	.32	.....	.05	.....	.....	.....	.....	.....	.....	.....	.....	10	.05	.62	.05	.....	.05	.....	.07	.....	.....	.....	.....	.....	.....	2.16
Beckley.....	do.....	.....	.....	.....	.58	.....	.....	.....	.....	.....	.....	.....	.....	78	.....	.38	.99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.81
Bens Run.....	Ohio.....	.35	.....	.....	.21	.....	.....	.....	.....	.....	.....	.....	.....	59	.93	.46	.09	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.11
Bluefield.....	G. Kanawha.....	.10	.....	.37	.....	.25	.....	.....	.....	.....	.....	.....	.....	35	.37	.....	.85	.47	.29	.....	.....	.....	.....	.....	.....	.....	.....	7.49
Brandenburg [I].....	Monongahela.....	.10	.....	.51	.....	.19	.....	.....	.....	.....	.....	.....	.....	70	.28	.38	.59	.05	.04	.....	.35	.....	.....	.....	.....	.....	.....	5.24
Buckhannon.....	do.....	.47	.....	.....	.15	.....	.....	.....	.....	.....	.....	.....	.....	53	1.00	.33	.47	.25	.....	.....	.							

TABLE 2.—*Daily precipitation for June, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for June, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for June, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																												Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Tennessee.																																	
Ashwood.....	Tennessee.....	T.		T.	10																											2.62	
Benton.....		do.....		.12	.05	T.	.50	.28																						7.34			
Bird's Bridge |||		do.....		.12	.03	.09	.89																								4.91		
Bluff City |||		do.....		.10	.33			.05																						4.31			
Byrdstown.....	Cumberland.....			.10																													
Carthage |||		do.....		.03	.05																										3.43		
Cedar Hill.....		do.....		T.	.08	T.		.01																							4.71		
Celina |||		do.....		.15																											4.46		
Center Point.....	Tennessee.....																																
Charleston |||		do.....																															
Chattanooga.....		do.....		.08	.09	.25	.10	.10	.84																								
Clarksville.....	Cumberland.....			.03																												5.75	
Clinton |||		do.....																														4.11	
Crossville.....		do.....		.14	.16	.41																									3.60		
Dandridge |||		do.....																															
Decatur.....		do.....																															
Dickson.....		do.....																															
Dover.....		do.....																															
Dunlap.....	Tennessee.....																																
Elizabethton |||		do.....																															
Erasmus.....	Cumberland.....			.20	.07	.21	T.	.07																									
Florence.....		do.....		.04	T.	T.	.10																										
Franklin.....		do.....		.07																													
Hall's Hill |||		do.....		.18		.1.30	.95		.25																								
Harriman.....	Tennessee.....																																
Hohenwald.....		do.....		.10																													
Iron City.....		do.....		.54		.05	.18		.10																								
Jefferson City |||		do.....		.06																													
Johnson City.....		do.....																															
Johnsonville.....		do.....		.02																													
Kingston |||		do.....																															
Knoxville.....		do.....																															
Lebanon.....	Cumberland.....			T.	.05	T.	.01		T.																								
Lewisburg.....	Tennessee.....			.03		.52																											
Livingston.....	Cumberland.....																																
Loudon |||	Tennessee.....																																
Lynville.....		do.....																															
McGhee |||		do.....																															
McMinnville.....	Cumberland.....																																
Maryville.....	Tennessee.....																																
Mountain City.....		do.....																															
Nashville.....	Cumberland.....			.07	.01	.37																											
Newport |||	Tennessee.....																																
New River |||	Cumberland.....			.10		.13																											
Palmnetto.....	Tennessee.....			.25		.05	.10		.15																								
Perryville.....		do.....		.46		.04																											
Pinewood.....		do.....		.04	T.	.62																											
Rogersville |||		do.....																															
Rugby.....	Cumberland.....			.07	.10																												
Savannah.....	Tennessee.....			.95		T.	.05																										
Sevierille.....		do.....		.47		.07																											
Sewanee.....		do.....		.94																													
Sparta.....	Cumberland.....			.05		.30																											
Springfield.....	Tennessee.....			.32																													
Tazewell |||		do.....			.37		.05																										
Tullahoma.....		do.....		.09	T.	.37																											
Walling |||		do.....																															
Waynesboro.....	Cumberland.....																																
Wildersville.....	Tennessee.....			.21	T.	.06	.25																										
Yukon.....		do.....																															
Alabama.																																	
Bridgeport |||	Tennessee.....																																
Decatur |||		do.....																															
Florence |||		do.....																															
Guntersville |||		do.....																															
Riverton |||		do.....																															
Scottsboro |||		do.....																															
Tuscumbia |||		do.....																															
Georgia.																																	
Diamond.....	Tennessee.....			.90	.08		.08	T.																									
Mineral Bluff.....		do.....		.22	.02	.03	1.35	.04																									
North Carolina.																																	
Altapass.....	Tennessee.....																																
Andrews.....		do.....																															
Asheville.....		do.....																															
Banners Elk.....		do.....																															
Blantyre.....		do.....																															

TABLE 2.—*Daily precipitation for June, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
<i>Virginia.</i>																																		
Burkes Garden.....	Tennessee.....			T.		.52										T.	.28	.17	.40	.40	T.											3.88		
Elk Knob.....	do.....	.03	.05	.03													.86	.24	T.	.29	.58		.03	.04								.11	2.40	
Ivanhoe ||.....	Kanawha.....	.35	T.	.20		.12										.30	.12	.12	T.	.08	.13		T.	.25	.90	.01	.10	.01					4.40	
Max Meadows.....	do.....	.05	T.	T.		.20										.30	.40	T.					.25	.18	1.43	.45	T.						1.03	4.29
Mendota ||.....	Tennessee.....	.25	.08			.30											.95	.25	.75				.40										4.24	
Mountain Lake.....	Kanawha.....	.02		.14												.02	.20	.30	.25	.27			.10		.45	.10	T.						1.85	
Radford ||.....	do.....		.40													T.	.20		1.18		1.02		.30	T.	.50	.90	.18	T.						4.68
Speers Ferry ||.....	Tennessee.....	.15				.18										.30	.80		.06	.83			.12			.30	.42	.07					3.23	
Wytheville.....	Kanawha.....	.58	.01	.35		.32										.24	.39	T.	.02	.06		T.	.18	.22	2.17	.08		.1.75	.01	.06	.10		6.51	

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for June, 1912. District No. 3, Ohio Valley.*

Date.	Pennsylvania.				West Virginia.										Ohio.						Canton.		Cincin-		Columbus.		Dayton.			
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Hunting-		Morgan-		Parkers-		Wheeling.		Canton.		Cincin-		Columbus.		Dayton.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	85	43	86	54	88	54	87	50	83	41	82	47	89	55	86	51	88	52	93	48	84	50	86	58	84	56	84	56		
2....	81	50	82	65	87	63	85	56	87	56	83	51	82	58	82	62	84	66	84	53	81	62	75	65	76	60	74	61		
3....	80	45	79	62	82	61	85	63	76	56	85	53	82	59	78	60	77	63	84	62	79	57	80	60	79	56	78	57		
4....	75	48	77	61	83	62	81	60	78	54	84	49	84	65	82	56	82	59	89	55	75	59	80	60	77	58	76	59		
5....	68	53	73	50	81	57	84	55	78	48	83	53	80	55	78	49	80	53	83	47	74	44	81	58	78	52	78	53		
6....	71	39	72	56	81	60	80	57	74	47	85	54	82	54	76	55	80	58	78	52	72	56	79	61	76	54	75	54		
7....	63	36	62	47	81	55	64	58	65	42	73	50	82	60	72	48	66	53	72	45	64	42	70	54	66	48	68	49		
8....	69	30	68	41	69	48	69	40	66	33	76	37	70	54	65	39	68	45	76	36	69	46	69	43	70	42	70	42		
9....	73	31	72	44	71	43	70	38	71	35	76	38	78	47	73	38	75	42	83	39	73	40	75	53	75	49	76	48		
10....	77	35	76	47	80	45	77	42	77	37	85	42	82	48	80	47	78	53	82	41	77	40	80	57	79	53	80	54		
11....	81	36	79	47	82	50	81	42	80	38	88	44	85	50	80	45	82	51	86	43	81	44	84	56	82	57	83	52		
12....	74	40	80	60	85	54	83	45	79	42	90	49	87	51	87	60	85	52	87	48	76	58	86	60	83	61	85	61		
13....	72	43	75	51	83	58	84	50	78	55	87	63	84	60	77	55	80	62	84	55	72	45	82	66	77	55	79	60		
14....	80	41	74	55	84	63	83	60	78	51	88	64	74	66	84	61	85	51	82	50	87	65	86	60	85	61	84	67		
15....	73	56	76	59	84	64	77	59	74	55	85	61	84	66	79	59	84	63	80	59	86	69	83	65	84	67	84	67		
16....	81	64	81	65	91	70	85	61	85	62	90	66	89	68	85	64	86	64	87	64	79	65	86	71	77	63	80	64		
17....	77	63	81	66	88	70	87	64	81	63	90	63	87	71	84	64	86	66	87	65	78	65	80	79	67	79	64	79	64	
18....	71	56	71	56	86	67	77	61	71	59	83	66	73	69	77	61	71	61	77	61	70	57	69	57	67	56	65	57		
19....	72	46	69	54	75	58	69	60	60	56	67	58	64	58	68	54	68	57	74	56	72	50	69	56	70	55	72	53		
20....	75	54	73	58	75	56	72	54	68	50	79	56	77	55	72	57	75	58	79	56	75	50	77	56	75	53	75	53		
21....	70	52	71	59	80	55	76	46	74	46	84	50	83	57	76	56	78	58	81	55	74	58	75	58	74	60	71	58		
22....	77	46	77	58	80	55	73	52	76	54	84	56	73	58	74	62	76	58	84	55	76	57	69	58	76	54	77	54		
23....	81	45	79	59	83	60	80	58	78	55	85	58	78	57	81	54	78	59	85	50	81	49	79	60	80	55	85	60		
24....	79	56	78	62	80	60	75	58	78	57	84	60	76	61	78	59	77	61	85	59	80	61	80	57	82	55	82	55		
25....	83	58	84	66	85	62	80	58	82	57	88	60	85	62	81	59	85	62	84	59	83	64	84	62	84	59	84	59		
26....	87	51	86	65	87	64	84	60	83	58	90	60	89	65	85	63	87	64	89	61	89	58	87	64	84	63	87	64		
27....	85	61	82	66	84	65	81	59	79	62	88	65	85	65	85	62	82	66	90	65	84	63	85	67	86	67	85	67		
28....	84	62	82	68	89	63	83	58	84	60	93	63	90	63	85	65	89	63	92	60	87	55	89	66	85	68	86	66		
29....	89	60	87	69	88	66	84	58	85	59	92	65	88	65	84	63	89	66	93	65	90	64	84	70	89	67	86	67		
30....	81	59	80	66	84	65	80	58	80	58	89	63	87	69	79	63	85	68	90	67	81	65	85	66	83	67	83	67		
Mns..	77.1	49.0	77.1	57.9	82.5	59.2	79.4	54.7	76.9	51.7	84.5	55.1	82.3	59.6	78.8	56.5	80.2	58.8	84.1	54.4	78.1	53.7	80.2	61.2	78.4	58.0	79.0	57.9		
	Ohio.				Indiana.										Kentucky.						Beatty-		Bowling		Earling-		Greens-		Lexing-	
Date.	Marion.	Waverly.	Waverly.	Evans-	ville.	Indianap-	olis.	Kokomo.	Rock-	ville.	Worthing-	ton.	Philo,	Ill.	Beatty-	ville.	Bowling	Green.	Earling-	ton.	Greens-	burg.	Greens-	burg.	Lexing-	ton.	Lexing-	ton.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	86	53	85	52	85	57	86	63	83	62	84	54	84	56	86	56	84	55	89	55	92	57	91	55	85	49	84	63		
2....	80	65	81	53	80	64	74	64	72	58	75	61	76	61	72	55	83	60	94	54	81	60	79	51	74	61	74	61		
3....	83	55	78	60	79	55	77	62	80	57	71	56	83	56	84	54	82	52	87	55	89	55	80	54	80	52	79	57		
4....	77	53	81	54	80	59	66	76	74	56	77	57	79	61	73	54	82	52	87	55	89	55	86	54	80	52	71	62		
5....	80	43	79	47	83	50	83	60	79	56	80	47	82	49	82	54	82	48	83	52	92	58	93	53	80	50	79	57		
6....	80	58	81	57	81	62	79	63	72	56	72	59	75	63	78	63	72	58	85	55	89	57	91	55	85	57	79	57		
7....	78	43	71	49	73	43	72	55	68	50	68	42	73	46	74	48	72	46	71	48	73	54	78	51	70	53	68	51		
8....	75	35	70	38	71	42	72	51	70	45	72	36	71	46	73	44	69	41	72	45	78	50	80	43	73	47	67	46		
9....	79	41	75	40	76	44	77	56	76	52	78	42	76	47	79	49	72	48	76	33	83	46	85	53	78	40	72	50		
10....	82	41	79	47	82	55	81	63	80	57	82	49	83	58	82	57	81	53	82	42	88	46	88	57	83	48	76	54		
11....	85	47	82	45	85	53	84	62	82	60	89	51	86	50	86	52	86	66	88	41	91	89	50	82	45	81	59	59		
12....	83	62	87	51	85	57	86	62	85	60	88	59	89	57	89	65	88	56	92	51	95	52	90	47	85	61	86	64		
13....	82	53	79	57	90	58	87	63	81	62	81	54	88	5																

TABLE 3.—*Maximum and minimum temperatures for June, 1912. District No. 3—Continued.*

Date.	Kentucky.				Tennessee.										Decatur, Ala. \$§		Asheville, N. C.		Virginia.												
	Louisville.	Maysville. \$§	Williams- burg. \$§	Chatta- nooga.	Johnson City. \$§	Knoxville.	Nashville.	Palmetto.	Sparta.	Waynes- boro.	Elk Knob.	Wythe- ville.							Elk Knob.		Wythe- ville.										
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.									
1....	88	63	91	53	87	56	89	62	90	53	88	65	89	62	87	60	89	58	88	57	90	63	84	56	87	65	82	50			
2....	77	63	81	56	90	53	84	69	86	63	86	67	79	64	83	55	83	67	83	68	82	60	83	67	84	57					
3....	81	59	85	61	86	55	80	68	87	65	85	67	81	62	84	65	82	63	84	63	88	70	80	62	82	59	81	62			
4....	84	63	85	55	82	53	79	67	80	67	81	68	81	68	81	67	82	65	85	68	79	67	75	62	78	63	79	62			
5....	86	58	87	47	87	60	88	66	88	65	88	66	88	68	87	64	87	64	90	62	87	68	81	60	84	62	81	59			
6....	82	60	85	52	86	60	84	65	85	62	86	68	86	69	86	67	85	68	89	64	87	69	75	63	82	64	81	58			
7....	72	53	75	47	72	57	75	63	71	60	74	58	75	62	72	55	77	61	75	60	75	65	70	55	68	68	48				
8....	71	51	74	43	75	46	73	59	70	46	74	54	75	57	73	50	76	53	74	46	75	64	70	53	67	47	68	43			
9....	77	52	79	41	78	45	77	58	74	42	76	53	79	55	77	48	80	49	77	51	78	54	68	46	70	49	66	39			
10....	84	60	85	45	81	43	77	55	83	44	80	55	81	57	79	51	83	50	79	49	80	57	70	45	75	55	73	41			
11....	85	59	87	47	85	48	80	55	87	46	82	55	83	56	81	54	87	50	81	49	83	55	74	43	80	67	80	40			
12....	88	60	91	50	87	46	84	55	86	44	84	54	85	58	84	54	87	52	88	53	88	59	78	45	84	65	79	43			
13....	92	66	90	57	90	52	84	61	92	55	86	57	87	62	85	61	89	53	85	68	89	64	85	50	85	73	84	53			
14....	86	70	93	59	87	53	82	66	77	62	82	69	80	67	78	62	82	61	84	61	82	66	73	58	79	74	68	55			
15....	87	68	90	65	87	62	86	67	82	60	84	66	86	70	85	69	86	67	88	68	87	68	74	58	77	69	78	55			
16....	87	66	89	65	89	65	87	75	87	63	87	69	87	79	87	77	86	68	90	76	90	74	87	61	83	70	82	58			
17....	78	66	85	66	90	64	89	74	90	66	90	72	86	65	89	70	89	67	90	75	90	74	90	64	85	67	85	65			
18....	68	60	71	66	86	68	88	69	87	63	88	88	70	86	65	89	66	88	71	91	75	86	64	78	66	83	66				
19....	72	58	70	55	65	62	71	61	81	66	75	60	71	60	70	61	79	60	73	60	72	64	78	60	75	58	77	58			
20....	78	56	80	51	87	53	78	59	77	57	76	57	78	57	78	52	.....	.....	78	49	80	55	71	56	72	52	70	50	
21....	79	60	83	58	83	53	83	55	85	51	80	55	81	60	83	54	.....	.....	84	51	84	56	76	52	77	55	77	46	
22....	80	59	82	58	82	56	84	62	85	55	81	60	81	59	82	56	.....	.....	83	53	86	59	76	57	77	54	79	52	
23....	81	59	83	52	83	57	85	52	85	56	81	64	61	77	62	80	57	84	54	80	58	85	62	74	58	79	58	74	57		
24....	78	62	80	53	83	56	73	61	82	58	74	63	69	62	71	61	71	62	68	60	71	61	73	59	74	55	75	57			
25....	80	65	86	59	84	56	69	61	82	62	81	62	77	62	77	60	79	60	76	62	76	60	80	61	77	59					
26....	88	65	90	60	88	62	77	62	85	64	80	63	79	59	83	60	79	63	78	64	79	60	85	60	82	61					
27....	90	65	92	62	88	64	81	63	82	64	88	65	84	64	82	59	88	60	80	60	85	62	80	60	84	61	82				
28....	88	65	93	60	88	60	84	64	88	59	86	62	83	66	81	64	89	61	80	65	80	64	79	58	85	61	81	61			
29....	86	69	90	62	86	64	83	66	89	61	83	64	80	67	81	66	86	60	82	63	83	67	82	58	84	67	83	60			
30....	87	67	91	64	83	64	83	65	89	62	82	64	81	66	80	66	86	63	80	65	84	65	76	61	80	61	76	63			
Mns.	82.0	61.6	84.8	55.6	84.2	56.8	81.2	63.2	83.8	58.3	82.5	62.3	81.2	63.1	81.0	60.3	83.8°	60.2°	82.0	60.5	83.0	64.0	77.2	56.8	79.4	61.3	77.8	54.6			

*, **, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.